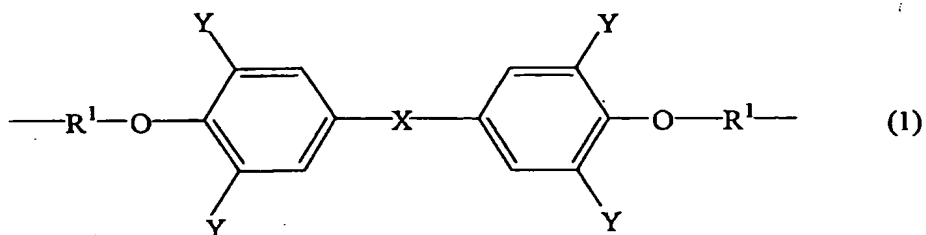


ABSTRACT

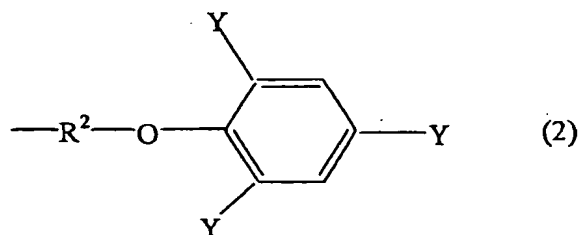
A photosensitive resin composition for optical waveguide formation, comprising:

- 5 (A) a di(meth)acrylate having the structure represented by the following general formula (1):



- (wherein  $\text{R}^1$  is  $\text{---(OCH}_2\text{CH}_2)_m\text{---}$ ,  $\text{---(OCH(CH}_3\text{)CH}_2)_m\text{---}$ , or  $\text{---OCH}_2\text{CH(OH)CH}_2\text{---}$ ; X is  $\text{---C(CH}_3)_2\text{---}$ ,  $\text{---CH}_2\text{---}$ ,  $\text{---O---}$ , or  $\text{---SO}_2\text{---}$ ; Y is a hydrogen atom or a halogen atom; m is an integer of 0 to 4);

- (B) a mono(meth)acrylate having the structure represented by the following general formula (2):



(wherein  $R^2$  is  $-(OCH_2CH_2)_p-$ ,  $-(OCH(CH_3)CH_2)_p-$ , or  $-OCH_2CH(OH)CH_2-$ ; Y is a hydrogen atom, a halogen atom,  $Ph-C(CH_3)_2-$ ,  $Ph-$ , or an alkyl group having 1 to 20 carbon atoms; p is an integer of 0 to 4; Ph is a phenyl group); and

- 5 (C) a photoradical polymerization initiator. The composition has excellent patterning ability, refractive index, heat resistance, and transmission characteristic.